CLAIMS

- 1. A wax composition comprising on a weight basis: wax esters, 6.2–11%; aldehydes, 2.8–9.5%; tri-glycerides, 0–3%; alcohols, 1.8–44.5%; and, free fatty acids, sterols and polar lipids, 36.8–87.2%.
- 5 2. A process for preparing a wax composition from crude sugar cane wax, the process comprising the steps of:
 - i) heating a solution of the crude wax with a lower alcohol as solvent at the boiling point of the solvent;
- ii) allowing phase separation of the solution from (i) and decanting
 the upper phase while hot;
 - iii) allowing the separated phase from (ii) to cool and separating crystallised wax from the solvent;
 - iv) repeating steps (i) to (iii) using the wax from (iii) until all pitch has been removed from the wax;
- 15 v) heating the wax to between 90 and 140°C and oxidising molten wax with oxidising material; and
 - vi) continuing the heating under an inert gas on completion of the oxidation step until intermediate peroxide products are removed.
- 3. The process according to claim 2, wherein said lower alcohol is ethanol or iso-propanol.
 - 4. The process according to claim 2, wherein said crude wax is combined with solvent at a ratio of 1:8 to 1:20 by weight.
 - 5. The process according to claim 4, wherein said ratio is 1:9.
- 6. The process according to claim 2 wherein in step (i) said solution is heated for 5 to 60 minutes.
 - 7. The process according to claim 6, wherein said solution is heated for about 30 minutes.
 - 8. The process according to claim 2, wherein in step (iii) said separation is by filtration or centrifugation.
- 30 9. The process according to claim 2, wherein steps (i) to (iii) are repeated from 2 to 5 times.
 - 10. The process according to claim 2, wherein in step (v) said heating is carried out under an oxygen-free gas.

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- 11. The process according to claim 10, wherein said gas is nitrogen.
- 12. The process according to claim 2, wherein said oxidising material of step (v) is selected from the group consisting of air, oxygen, and mixtures of oxygen, nitrogen and ozone.
- 5 13. The process according to claim 2, wherein in step (v) said oxidation is carried out in the presence of a catalyst.
 - 14. The process according to claim 10, wherein said catalyst is selected from the group consisting of a borate or resinate of cobalt or manganese, ferrous salts, and Fenton's reagent.
- 10 15. The process according to claim 2 comprising the further steps of:
 - vii) heating wax from step (vi) with a lower alcohol as solvent at the boiling point of the solvent with activated carbon present at a wax to carbon ratio of 1:0.5 to 1:3;
 - viii) filtering the molten slurry while hot;
- 15 ix) allowing the recovered wax/solvent mixture to cool and separating crystallised wax therefrom.
 - 16. The process according to claim 2 comprising the further steps of:
 - (vii) heating wax composition from step (vi) with a lower alcohol as solvent at the boiling point of said solvent for 30 to 60 minutes;
 - (viii) allowing phase separation of the solution from (vi) and decanting the upper phase while hot;
 - (ix) allowing the separated upper phase from (viii) to cool and separating crystallised wax from said solvent;
 - (x) heating wax from (ix) in the absence of solvent for 15 minutes to 3 hours; and
 - (xi) repeating steps (vii) to (x) until the desired degree of decolourisation is achieved.
 - A comestible which includes the wax composition of claim 1.